Keith Briggs
Aluminum Recovery Technologies, Inc.
2170 Production Road
Kendallville, IN 46755

Re: 113-13807-00071
First Administrative Amendment to
Significant Source Modification
113-11409-00071

Dear Mr. Briggs:

Aluminum Recovery Technologies, Inc. was issued a Part 70 Significant Source Modification permit on March 29, 2000 for a stationary secondary aluminum production source. A letter requesting the rotary dross cooler permitted at a process weight rate of 10 tons per hour to be changed to 2 tons per hour was received on January 23, 2001. Pursuant to the provisions of 2-7-11(a)(8) the permit is hereby administratively amended as follows (with new language bolded and old language stricken):

The process weight rate for the rotary dross cooler has been revised in Condition A.2.

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)]
[326 IAC 2-7-5(15)]

This stationary source is approved to construct and operate the following emission units and pollution control devices:

(a) two (2) natural gas-fired rotary dross furnaces (ID RDF #2 and #3), each having a maximum heat input capacity of 12.0 million British thermal units (MMBtu) per hour, each with a maximum melt rate of 12,000 pounds of aluminum scrap per hour, with one (1) new lime injected baghouse (ID Baghouse B) for particulate matter control for both furnaces, exhausting through one (1) stack (ID No. BH #2); and

(b) one (1) rotary dross cooler (ID RDFC), with a maximum capacity to cool ~~20,000~~ **4,000** pounds of salt dross per hour, with one (1) existing lime injected baghouse (ID Baghouse A) for particulate matter control, exhausting through one (1) stack (ID BH #1).

The process weight rate for the rotary dross cooler has been revised in the facility description box in Section D.1.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

(a) two (2) natural gas-fired rotary dross furnaces (ID RDF #2 and #3), each having a maximum heat input capacity of 12.0 million British thermal units (MMBtu) per hour, each with a maximum melt rate of 12,000 pounds of aluminum scrap per hour, with one (1) lime injected baghouse (ID Baghouse B) for particulate matter control for both furnaces, exhausting through one (1) new stack (ID No. BH #2); and

(b) one (1) rotary dross cooler (ID RDFC), with a maximum capacity to cool ~~20,000~~ **4,000** pounds of salt dross per hour, with one (1) existing lime injected baghouse (ID Baghouse A) for particulate matter control, exhausting through one (1) stack (ID BH #1).

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

The PM emission rate for the rotary dross cooler has been revised to be consistent with the new process weight rate in Condition D.1.1.

D.1.1 Particulate Matter (PM) [326 IAC 6-3]

(a) Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from each of the rotary dross furnaces #2 and #3 shall not exceed 13.6 pounds per hour when operating at a process weight rate of 12,000 pounds per hour.

(b) Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the rotary dross cooler shall not exceed ~~19.2~~ **6.52** pounds per hour when operating at a process weight rate of ~~20,000~~ **4,000** pounds per hour.

The pounds per hour limitations were calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this amendment and the following revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter please contact Nishat Hydari, at 973-575-2555 (ext. 3216) or 1-800-451-6027 press 0 and ask for extension 3-6878.

Sincerely,

Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

Attachments
NH/EVP
cc: File - Noble County
U.S. EPA, Region V
Noble County Health Department
Air Compliance Section Inspector - Doyle Houser
Compliance Data Section - Karen Nowak
Administrative and Development - Janet Mobley
Technical Support and Modeling - Nancy Landau

PART 70 SIGNIFICANT SOURCE MODIFICATION
OFFICE OF AIR QUALITY

Aluminum Recovery Technologies, Inc.
2170 Production Road
Kendallville, Indiana 46755

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this approval.

This approval is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Source Modification No.: 113-11409-00071	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date: March 29, 2000

First Administrative Amendment: 113-13807-00071	Pages Affected: 3, 12
Issued by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date:

SECTION A SOURCE SUMMARY

This approval is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the emission units contained in conditions A.1 through A.2 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this approval pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

The Permittee owns and operates a stationary secondary aluminum production source.

Responsible Official:	Dan Gariepy
Source Address:	2170 Production Road, Kendallville, Indiana 46755
Mailing Address:	2170 Production Road, Kendallville, Indiana 46755
Phone Number:	219-349-1590
SIC Code:	3341
County Location:	Noble
County Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Minor Source, under PSD Rules;

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source is approved to construct and operate the following emission units and pollution control devices:

(a) two (2) natural gas-fired rotary dross furnaces (ID RDF #2 and #3), each having a maximum heat input capacity of 12.0 million British thermal units (MMBtu) per hour, each with a maximum melt rate of 12,000 pounds of aluminum scrap per hour, with one (1) new lime injected baghouse (ID Baghouse B) for particulate matter control for both furnaces, exhausting through one (1) stack (ID No. BH #2); and

(b) one (1) rotary dross cooler (ID RDFC), with a maximum capacity to cool 4,000 pounds of salt dross per hour, with one (1) existing lime injected baghouse (ID Baghouse A) for particulate matter control, exhausting through one (1) stack (ID BH #1).

A.3 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

(a) It is a major source, as defined in 326 IAC 2-7-1(22);

(b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(a) two (2) natural gas-fired rotary dross furnaces (ID RDF #2 and #3), each having a maximum heat input capacity of 12.0 million British thermal units (MMBtu) per hour, each with a maximum melt rate of 12,000 pounds of aluminum scrap per hour, with one (1) lime injected baghouse (ID Baghouse B) for particulate matter control for both furnaces, exhausting through one (1) new stack (ID No. BH #2); and

(b) one (1) rotary dross cooler (ID RDFC), with a maximum capacity to cool 4,000 pounds of salt dross per hour, with one (1) existing lime injected baghouse (ID Baghouse A) for particulate matter control, exhausting through one (1) stack (ID BH #1).

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Particulate Matter (PM) [326 IAC 6-3]

(a) Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from each of the rotary dross furnaces #2 and #3 shall not exceed 13.6 pounds per hour when operating at a process weight rate of 12,000 pounds per hour.

(b) Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the rotary dross cooler shall not exceed 6.52 pounds per hour when operating at a process weight rate of 4,000 pounds per hour.

The pounds per hour limitations were calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

D.1.2 PSD Minor Limit [326 IAC 2-2] [40 CFR 52.21]

Emissions of PM and PM10 from the two (2) rotary dross furnaces #2 and #3 and the rotary dross cooler shall not exceed 100 tons per year. Only the baghouse (ID Baghouse A) is required to be in operation to control PM and PM10 emissions from the rotary dross cooler at all times that the rotary dross cooler is in operation to comply with this limit. Compliance with this limit makes 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21 not applicable.

D.1.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the rotary dross cooler and Baghouse A.